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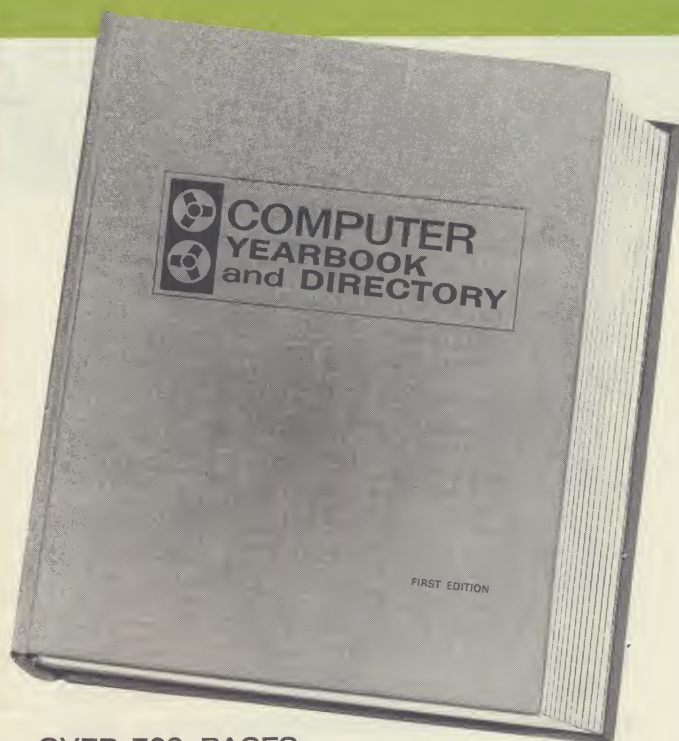
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BRIEF OUTLINE OF CONTENTS

EQUIPMENT SPECIFICATIONS — Detailed descriptions of computers in common use

EQUIPMENT DIRECTORY — Guide to all computers produced since 1952

GLOSSARY — definitions of more than 1500 computer terms

SYMBOLS — commonly used symbols for systems people and programmers

STATE OF THE ART REPORTS — cover most types of organizations and many varied functions

REFERENCE DIRECTORIES — Manufacturers, Associations, Educational Institutions, User Groups, Audio-Visual Aids on Computer Use, Book Directory, Bibliographies, Products and Services, and many other valuable features

DATA PROCESSING SYSTEMS ENCYCLOPEDIA

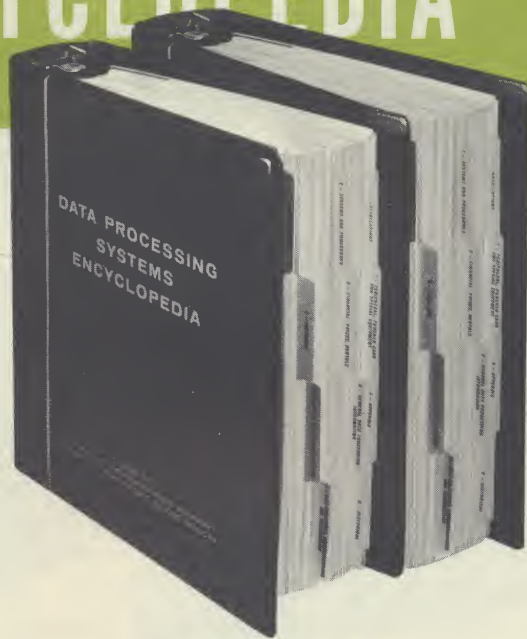
Now . . . complete, detailed information on all
DATA PROCESSING EQUIPMENT

— gives you, for the first time, a single source for evaluating all existent equipment to make effective comparisons.

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This Encyclopedia Service contains detailed specifications, descriptions, illustrations, comparative charts, and prices — information you need for an expert analysis of equipment to suit your present and future needs.

Monthly Updatings bring you new material on listed equipment plus complete specifications on newly introduced machines. The updatings also contain new information on equipment prices and rentals, systems and procedures, computer applications, software, data collection, communications, and transmission. There will also be a variety of reference material, such as a census of computers presently installed in the United States and Europe, and bibliographical material on the important articles and books published in the data processing field. This service is designed to keep you current on all the developments in a rapidly changing field.



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ELECTROMECHANICAL EQUIPMENT

A history of punched card and associated data processing equipment.

An introduction to punched card data processing.

Illustrations of more than 400 pieces of equipment, a detailed description and specifications of each.

A complete index of the names and addresses of the manufacturers is included. There is a glossary of terms used in the punched card field.

ELECTRONIC EQUIPMENT

An introduction to electronic data processing equipment.

Illustrations of nearly 150 electronic computers or computer systems, a detailed description of each, the components of the system, input and output media, auxiliary components, programming details, power requirements and physical characteristics; also magnetic ink character recognition and optical scanning devices and equipment.

COMPUTER APPLICATIONS SERVICE

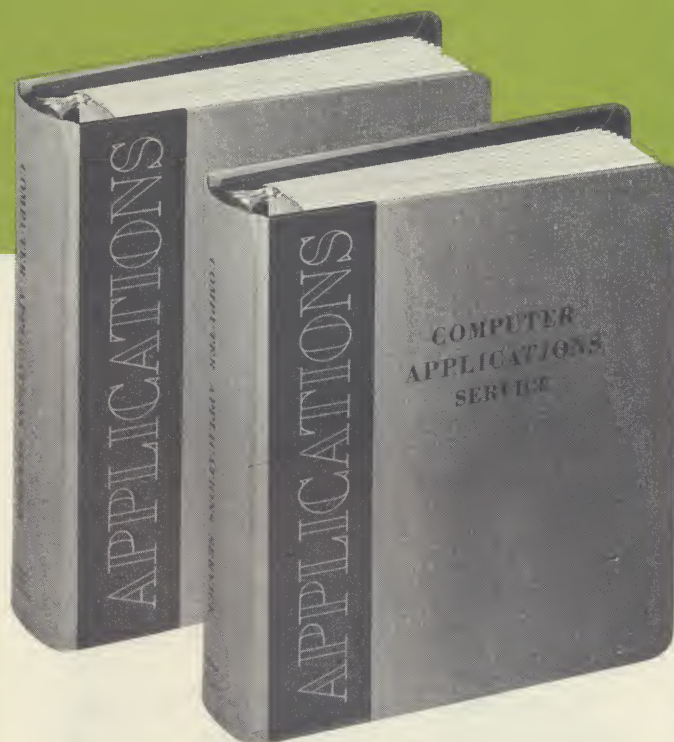
This monthly service presents use of electronic data processing equipment for many types of organizations.

Each application has detailed documentation, such as input source document formats, card formats, tape record layouts, output report formats, and all necessary forms and diagrams. Most popular general purpose computers are represented.

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- Whether you now use a computer or are considering one, highly skilled planning is needed to make sure your investment shows an early profit.
- In recent years all too many firms have had to start virtually from scratch, and learn by experience what they can and cannot do with computers. In the process there have been many million-dollar boners.
- Fortunately, there is now a large body of experience available—and reported in COMPUTER APPLICATIONS SERVICE. This valuable service helps you to avoid financially risky trial-and-error, and profit by the experience of others who had to cope with problems similar to your own.
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INFORMATION SYSTEMS BIBLIOGRAPHIC INDEX

Covers the period 1956 - 1964

The past ten years have seen revolutionary changes in management systems. The advent of electronic data processing has affected every phase of management — corporate decision making, scientific management techniques, economic planning, personnel relations, inventory and production considerations. Not a single management function has been unaffected.

Management men at all levels are challenged to keep up with the latest and most pertinent information.

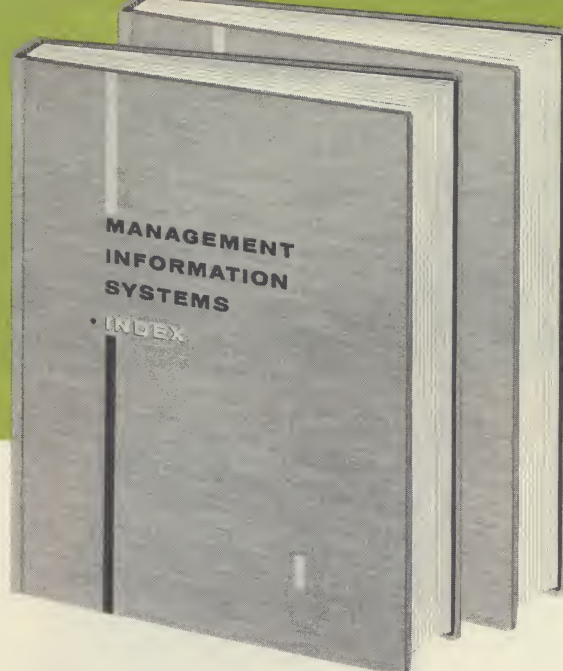
Now there is a comprehensive index that contains thousands of references to help you find this information. Hundreds of publications carry thousands of articles on these subjects each year — hundreds of books and information services are available.

This Index classifies material from over 600 periodicals into 101 main categories. The Index also includes abstracts of 127 books on management systems.

Volume One contains index references from 1956 to 1962.

Volume Two covers the years 1963 and 1964.

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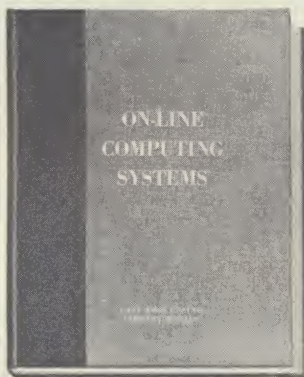


Main categories included in INDEX

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AGRICULTURE	FOREIGN	MICR
APPLICATIONS	FORMS	MICROFILM
ARTIFICIAL	GLOSSARIES	MILITARY
INTELLIGENCE	GOVERNMENT	MINING
AUDITING	HARDWARE	ON LINE
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BEHAVIORAL SCIENCE	HOTELS	ORDER PROCESSING
BEMA	HUMOR	ORGANIZATIONS
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CONTROL	INSURANCE	PROGRAMMING
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CONSULTANTS	LASERS	QUALITY CONTROL
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CYBERNETICS	MAGNETIC TAPE	SOCIOLOGICAL
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COMMUNICATIONS	MAN-MACHINE	STANDARDS
DATA DISPLAY	MANAGEMENT INFO.	SURVEYS
DATA PROCESSING	SYSTEMS	TIME SHARING
DATA PROCESSING	MANAGEMENT	TOTAL SYSTEMS
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DATA TRANSMISSION	MANUFACTURING	TRANSPORTATION
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ON-LINE COMPUTING SYSTEMS

Edited by Eric Burgess



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A new era in data processing is now brought about by the possibility of entering information into a system as generated and requesting outputs at the time needed.

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On Line Systems — Motivations and Characteristics
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Multi-Computers Applied to On Line Systems
On Line User Languages

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Group Communications in On Line Systems

PART IV — METHODS

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Disc File Symposium Objectives
A Disc File Oriented Time Sharing System
A Disc Oriented IBM 7094 System — A Summary
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IBM File Concepts
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A Comparison of the Characteristics of Modern Discs and Tapes
Design Criteria for an On Line Nationwide Order Processing System

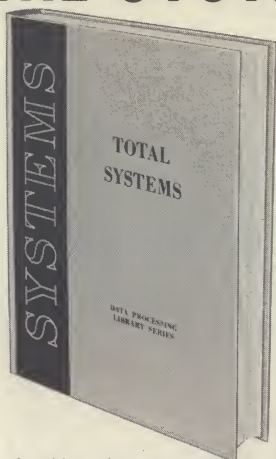
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Disc Files in a Military Supply Depot
Disc File Applications in a Real Time Multi-Computer System
A Disc-Oriented Remote Inquiry Philco 2000 System
Application of a Disc File to Message Switching Systems

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The information in this volume provides the key to the most effective and profitable data processing operations. **Total systems** is the concept of interrelating all company activities with computer-based systems in line with corporate policies and objectives.

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The Role of Management Consultants in Implementing Business Systems

A Real Time System for Banking

CASE HISTORIES

Allis-Chalmers Manufacturing Company: Applying Control Concepts to an Organization

Monsanto Chemical Company: A Total Systems Approach to Marketing

Lumbermens Mutual Insurance Company: Conversion to Data Processing

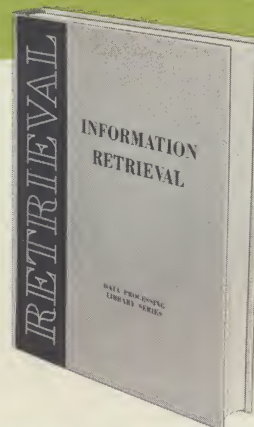
Martin-Marietta Corporation: Centralized Operations Control

Canadian Pacific Railway Company: Integrated Data Processing

Bibliography

Author Index

INFORMATION RETRIEVAL MANAGEMENT



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Edited by Lowell H. Hattery

This book provides a broad systems approach to the storage and retrieval of information. Mainly, the subjects covered fall into five categories: the general problem, the management problem, communications aspects, problem definition, and systems experience.

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Automated Intelligence Systems

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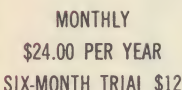
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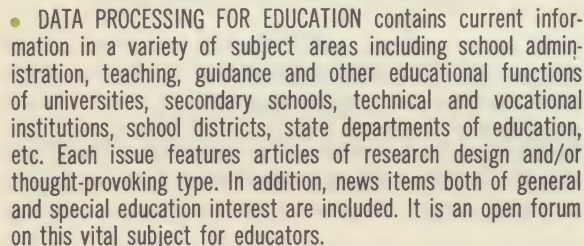
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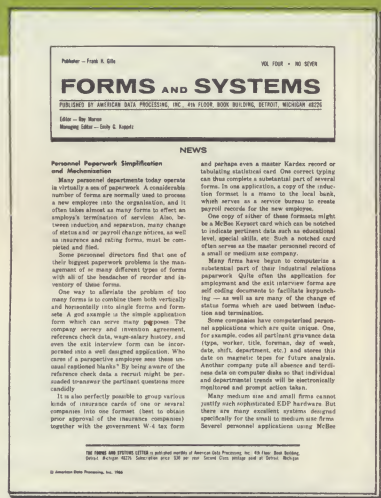


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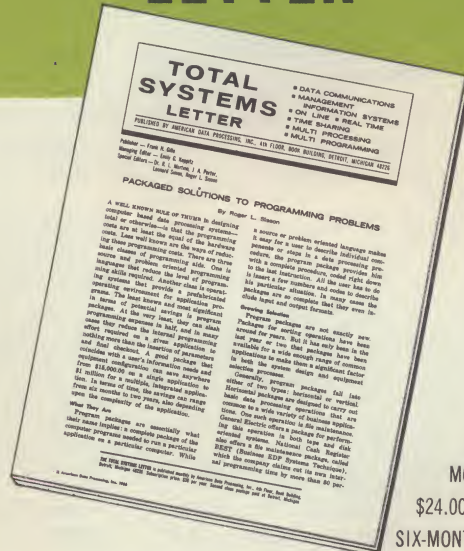


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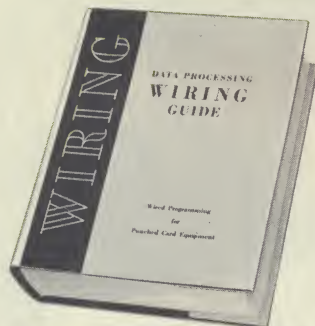
If you, like so many others, have had a tendency to be principally "hardware oriented," this service will help get you on the systems track. If you have been thinking largely in terms of individual applications of data processing equipment, this service will motivate you to think of the more broad relationship of hardware and systems to overall operations.

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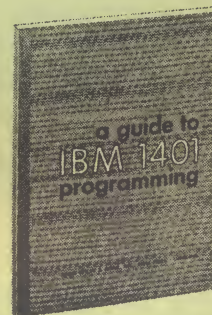
One of the most significant developments in punched card data processing in many years—now you can enter up to 240 digits in a single 80-column card! Although multiple punching is not entirely new, what is new is the use of the binary system applied to recording numerical figures up to three digits in each column of the card.

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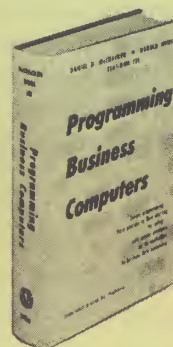
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PROGRAMMING BOOKS



A GUIDE TO IBM 1401 PROGRAMMING

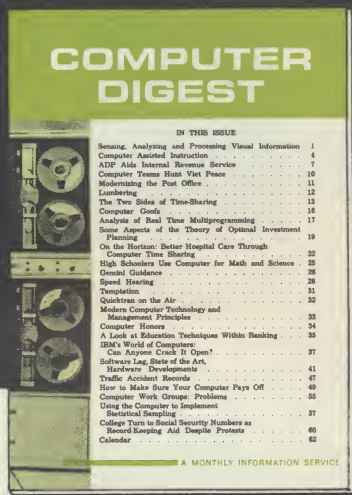
Now—with this book—you can teach yourself the principles of programming and the basic concepts of electronic data processing for the IBM 1401. Author-expert Daniel D. McCracken in early chapters presents the basic ideas of data processing methods and equipment, then proceeds to a detailed discussion of 1401 programming concepts and techniques. Completely illustrated, with examples and case studies, review questions and exercises. Timely! Easy to use! 199 pages \$5.75



PROGRAMMING BUSINESS COMPUTERS

This book is directed to the reader who lacks an extensive background in mathematics but who is involved or expects to be involved in day to day application of computers to business data processing problems. Daniel McCracken, Harold Weiss and Tsai-Hwa Lee cover programming from analysis to flow charting to coding, with special emphasis on its application to business data processing. They employ a hypothetical computer to represent features of various machines. They also include an examination of advanced techniques such as automatic coding and large random access storage devices, and conclude with a summary of steps necessary to establish a computer application, and a critical examination of the accounting and auditing problems associated with electronic data processing. 510 pages \$9.50

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